

Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A sheet-like electronic component clean transfer device which automatically transfers a sheet-like electronic component accommodated in a cassette in clean air, comprising:

a casing within which the cassette is opened;

a fan/filter unit provided on a ceiling of the casing that blows clean air into the casing;

a conveying robot provided in the casing that automatically transfers the sheet-like electronic component between predetermined positions;

a filter provided in the fan/filter unit that removes 99.999% or above of particulates of 0.1 μm or above; and

a first floor provided in the casing and horizontally arranged on a lower side of an arm of the conveying robot at a middle height part of the conveying robot and through which air can pass between an upper side of the first floor and a lower side of the first floor,

wherein the casing defines a first chamber between the first floor and the fan/filter unit, and a second chamber between the first floor and a bottom part of the casing through which air can pass between the second chamber and an outside of the bottom part of the casing.

opened in a casing between predetermined positions in the casing by a conveying robot in the casing under clean air which blows into the casing from a fan/filter unit provided on a ceiling of the casing,

wherein the fan/filter unit comprises a filter which removes 99.999% or above of particles of 0.1mm or above, and

the casing comprises a first floor which is horizontally arranged on a lower side of an arm of the conveying robot at a middle height part of the conveying robot and through which air can pass, partitions a first chamber between the fan/filter unit and the first floor, and partitions a second chamber between a casing bottom part through which air can pass to the outside and the first floor.

2. (Currently Amended) The sheet-like electronic component clean transfer device according to claim 1, ~~wherein a wall of the first chamber comprises a door which moves up and down, further comprising:~~

a door provided on a wall of the first chamber that moves up and down; and
a door passage for the door, provided on the second chamber side and covered
with a partition,

~~a door passage for the door provided on the second chamber side is~~
~~covered with a partition, and~~

~~wherein a part of~~ clean air which flows into the second chamber from the first chamber is directly discharged to the casing bottom part through the door passage.

3. (Currently Amended) The sheet-like electronic component clean transfer device according to claim 1, wherein a gap ~~whose width is not less than 1 mm and not more than 30 mm~~ is provided between a door frame part provided on the wall of the first chamber and the door set so as to be adjacent thereto, and/or between the door frame part and the cassette, and between the first floor and a body of the conveying robot, and

a width of the gap is not less than 1 mm and not more than 30 mm..

4. (Previously Presented) The sheet-like electronic component clean transfer device according to claim 1, wherein the conveying robot comprises:

a dust generation preventing seal structure provided to an articulated part of the arm;
and

a vent hole which downwardly discharges air in a body which supports the arm with a descending operation of the body.

5. (Currently Amended) The sheet-like electronic component clean transfer device according to claim 1, wherein the casing comprises further comprising a second floor provided in the case and horizontally arranged in the vicinity of a base of the conveying robot,
wherein the second floor changes a degree of opening of the casing bottom part with respect to the outside, and through which air can pass between an upper side and a lower side of the second floor. a second floor which is horizontally arranged in the vicinity of a base of the conveying robot and changes a degree of opening of the casing bottom part with respect to the outside and through which air can pass.

6. (Currently Amended) The sheet-like electronic component clean transfer device according to claim 1, wherein an open space in the first floor is not less than 5% and not more than 50% of the total area of the first floor, and an open space in the casing bottom part is not less than 5% and not more than 70% of the total area of the casing bottom. wherein a degree of opening of the first floor is not less than 5% and not more than 50%, and a degree of opening of the casing bottom part is not less than 5% and not more than 70%.

7. (Currently Amended) The sheet-like electronic component clean transfer device according to claim 1claim 6, wherein an internal pressure of the first chamber is higher than an internal pressure of the second chamber, and
an internal pressure of the second chamber is not less than 0.1 Pa.

8. (Previously Presented) The sheet-like electronic component clean transfer device according to claim 1, wherein the number of times of ventilation of the first chamber is not less than 5 and not more than 45 per minute.

9. (Previously Presented) The sheet-like electronic component clean transfer device according to claim 1, wherein a blowing speed of the clean air into the first chamber from the fan/filter unit is not less than 0.1 m/second to not more than 0.65 m/second.

10. (Previously Presented) The sheet-like electronic component clean transfer device according to claim 1, wherein one wall of the casing has an opening part which opens to at least one of the first chamber and the second chamber,

a degree of opening of the opening part with respect to the one wall is not more than 20%,

an internal pressure of the first chamber is not less than 0.1 Pa, and
the number of times of ventilation of the first chamber is not less than 10 and not more than 45 per minute.

11. (Previously Presented) A sheet-like electronic product manufacturing system comprising the sheet-like electronic component clean transfer device according to claim 1.